

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A system for heating a fluid for delivery into a body of a patient comprising:

a fluid delivery-line comprising:

a tube for communicating a fluid;

at least one two or more thermal sensors, at least one thermal sensor positioned approximate to each end of the tube; and

a heating element positioned proximate a surface of the ~~fluid-delivery~~ tube to heat fluid within the tube, the heating element being controlled based on temperature data from the two or more thermal sensors to generate a determined heat gradient through the fluid within the tube.

2. (Original) The system according to claim 1, further comprising a controller.

3. (Currently Amended) The system according to claim 1, wherein the heating element is spaced apart from an outer surface of the ~~second~~ tube.

4. (Original) The system according to claim 1, wherein a wall of the tube comprises a thermal medium for distributing heat received by the outer surface of the tube from the heating element.

5. (Original) The system according to claim 1, wherein the heating element surrounds the tube.

6. (Original) The system according to claim 1, wherein the heating element spirally surrounds the tube.

7. (Original) The system according to claim 1, wherein the heating element comprises a plurality of heating elements surrounding the tube and having a length positioned substantially parallel to a length of the tube.
8. (Original) The system according to claim 1, wherein the heating element comprises a plurality of heating elements, each circumferentially surrounding the tube and spaced apart from one another along a length of the tube.
9. (Original) The system according to claim 1, wherein the heating element is surrounded by a thermal medium.
10. (Currently Amended) The system according to claim 9 [[1]], wherein the thermal medium comprises a fluid.
11. (Currently Amended) The system according to claim 1, wherein the fluid delivery-line tube includes a bag spike positioned at one end.
12. (Currently Amended) The system according to claim 1, wherein the fluid delivery-line tube includes a transfusion needle and/or a luer lock at one end.
13. (Currently Amended) The system according to claim 2 [[1]], wherein the heating element and/or the two or more thermal sensors are in electrical contact with the controller.
14. (Currently Amended) The system according to claim 2 [[1]], wherein the controller is connected to a power source.
15. (Currently Amended) The system according to claim 14 [[2]], wherein the power source

is selected from the group consisting of: a one-time use battery pack, a rechargeable battery pack, AC power, and DC power.

16. (Original) The system according to claim 1, wherein the tube is sterile prior to use.

17. (Original) The system according to claim 2, wherein the controller provides an electrical current to the heating element.

18. (Currently Amended) The system according to claim 17, wherein the controller controls the temperature of the ~~second~~ tube by sensing a temperature corresponding to a temperature of fluid within the ~~second~~ tube and adjusting the amount of current supplied to the heating element.

19. (Original) The system according to claim 2, further comprising a heat element connector and/or a thermal sensor connector for connecting the heat element and thermal sensor, respectively, to corresponding connectors on the controller.

20. (Original) The system according to claim 1, further comprising a valve.

21. (Currently Amended) The system according to claim 20, wherein the valve comprises a temperature actuated valve that opens upon the temperature of the fluid within the ~~second~~ tube reaching a predetermined value.

22. (Currently Amended) The system according to claim 1, further comprising a metering means for determining a flow rate of fluid traversing through the ~~fluid-delivery~~ tube.

23. (Currently Amended) The system according to claim 1, further comprising a heat-conductive member having a first portion placed adjacent an interior portion of the ~~fluid-delivery~~ tube and a second portion placed proximate the heating element, wherein the heat-conductive

material transfers heat from the heating element to the interior portion of the ~~fluid-delivery~~ tube.

24. (Currently amended) The system according to claim 1, further comprising an insulative tube, wherein the ~~fluid-delivery~~ tube is positioned within the insulative tube.

25. (Currently Amended) The system according to claim 24, further comprising a thermal medium positioned between the ~~fluid-delivery~~ tube and the insulative tube.

26. (Previously Presented) The system according to claim 25, wherein the thermal medium envelops the heating element.

27-30. (Canceled)

31. (Currently Amended) A system for heating a fluid for delivery into ~~the~~ a body of a patient comprising:

a controller; and

a fluid delivery line having a first end for receiving fluid from a fluid source and delivering the fluid to a destination, the fluid delivery line comprising:

an insulative tube;

a fluid delivery tube positioned within the ~~first~~ insulative tube, the fluid delivery tube for communicating a fluid;

two or more at least one thermal sensors, at least one thermal sensor positioned proximate the fluid delivery tube;

a heating element positioned proximate the fluid delivery tube, the heating element being controlled based on temperature data from the two or more thermal sensors to generate a determined heat gradient through the fluid within the tube; and

a thermal medium positioned between the ~~first~~ insulative tube and the ~~second~~ fluid delivery tube.